BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISOIN

NAME OF WORK:- Construction of Additional floor to Dr. B. R. Ambedkar Samudaya Bhavana at Jakkur layout 6th Cross in ward No. 08 Amrutahalli

Est Cost : 70.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Construction of Additional floor to Dr. B. R. Ambedkar Samudaya Bhavana at Jakkur layout 6th Cross in ward No. 08 Amrutahalli

Estimation Cost.Rs 7000000.00

Sl No	Description of work	Unit	Measurements				Qty	Rate	Amount
			No.	L	B	D			
1	**Demolishing cement concrete** manually/ by mechanical means including disposal of material to the appropriate disposal area as per direction of Engineer-in-charge.**(PWD SR 2023-24 Vol -II Pg 187 item no 19.2.1)**								
a	Roof Slab	Cum	1	7.40	8.70	0.15	9.66		
b	Foundation		1	8.80	0.75	1.50	9.90		
			1	7.40	0.75	1.50	8.33		
					Total		**27.88**	1829.30	51004.54
	Basic rate	1663.00							
	Area weightage 10%	166.30							
	Sub Total	**1829.30**							
2	**Demolishing brick work manually**/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge.**(PWD SR 2023-24 Vol -II Pg 187 item no 19.7.1)**								
a	For parapet wall	Cum	2	7.4	0.23	0.80	2.72		
			2	7.55	0.23	0.80	2.78		
b	For wall		2	7.4	0.35	3.00	15.54		
			2	7.3	0.35	3.00	15.33		
					Total		**36.37**	530.20	19284.22
	Basic rate	482.00							
	Area weightage 10%	48.20							
	Sub Total	**530.20**							
3	**Dismantling tile work in floors** and roofs laid in cement mortar including stacking material to the appropriate disposal area as per direction of Engineer-in-charge.**For thickness of tiles 10 mm to 25 mm(PWD SR 2023-24 Vol -II Pg 189 item no 19.22.1)**								
	For Flooring	m2	1	7.40	8.00		59.20		
					Total		59.20	52.80	3125.76
	Basic rate	48.00							
	Area weightage 10%	4.80							
	Sub Total	**52.80**							
4	**Earth work excavation by manual means for drains**, canals, waste weir, draft, approach channels, key trenches, foundation of Buildings & bridges and such simillar works in all kinds of soils, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Depth exceeding 1.5m, but not exceeding 3 m **(PWD SR 2023-24 Vol -I Pg No 5 item no 1.4.2)**								
a	For Columns	Cum	12	1.50	1.50	1.80	48.60		
b	For All round wall		1	43.66	1.20	1.00	52.39		
c	For Short Wall		1	5.70	1.20	1.00	6.84		
d	For Staircase		1	1.00	0.90	0.75	0.68		
	sump tank		1	3.60	3.00	2.00	21.60		
	for toilit		1	5.50	0.75	0.75	3.09		
							133.20	284.90	37948.89
	Basic rate	259.00							
	Area weightage 10%	25.90							
	Sub Total	**284.90**							
5	**Providing and laying in position Cement Concrete** for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other ppurtenances required to complete the work as per technical specifications.Mix 1:3:6 Using 40 mm nominal size graded crushed coarse aggregates**(PWD SR 2023-24 Vol -I Pg 15 item no 2.1.3)**								

Sl No	Description of work	Unit	Measurements				Qty	Rate	Amount
			No.	L	B	D			
a	For Columns	Cum	12	1.50	1.50	0.15	4.05		
b	For All round wall		1	43.66	1.20	0.15	7.86		
c	For Short Wall		1	5.70	1.20	0.15	1.03		
d	For Staircase		1	1.00	0.90	0.15	0.14		
e	For stilt flooring		1	12.25	6.75	0.15	12.40		
			1	6.75	2.55	0.15	2.58		
f	sump tank		1	3.60	3.00	0.20	2.16		
g	Toilet		1	5.50	0.75	0.15	0.62		
							30.83	6587.90	**203128.34**
	Basic rate	5989.00							
	Area weightage 10%	598.90							
	Sub Total	**6587.90**							
6	**Providing Size Stone masonry** with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)**(PWD SR 2023-24 Vol -II Pg 9 item no 5.4)**								
a	For Allround wall Foundation	Cum	1	43.66	0.90	0.60	23.58		
			1	43.66	0.75	0.45	14.74		
			1	43.66	0.6	0.45	11.79		
b	For Short Wall		1	6.75	0.75	1.5	7.59		
c	For Basement		1	43.66	0.50	0.45	9.82		
			1	6.75	0.50	0.45	1.52		
d	For toilet		1	5.50	0.60	0.60	1.98		
					Total		**71.02**	7027.90	499092.2922
	Basic rate	6389.00							
	Area weightage 10%	638.90							
	Sub Total	**7027.90**							
7	Providing and laying in position **Cement Concrete for all Sub structures** of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.**M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (PWD SR 2023-24 Vol -I Pg 16 item no 2.4.3)**								
A	**Stilt Floor Parking**								
a	For Column Footing	Cum	12	1.35	1.35	0.60	13.12		
			12	0.75	0.90	0.60	4.86		
					Sub Total		**17.98**		
b	For Column		12	0.23	0.45	5.20	6.46		
					Sub Total		**6.46**		
c	For Plinth Beam		1	43.66	0.30	0.30	3.93		
			1	6.90	0.30	0.30	0.62		
d	For Beams		2	15.90	0.23	0.45	3.29		
			6	7.00	0.23	0.45	4.35		
					Sub Total		**12.19**		
e	For Staircase Footing		1	1.00	0.90	0.30	0.27		
f	Waist Slab		2	2.50	1.05	0.15	0.79		
			1	1.35	1.05	0.15	0.21		
g	Landing		2	1.05	1.05	0.15	0.33		
h	Steps		18	1.05	0.30	0.08	0.45		
i	For Roof Slab		1	15.90	7.40	0.15	17.65		
					Sub Total		**19.70**		
B	**Ground Floor**								
a	For Column		12	0.23	0.45	3.00	3.73		
	For Second floor column		12	0.23	0.50	1.00	1.38		
					Sub Total		**5.11**		
b	For Beams		2	15.90	0.23	0.45	3.29		
			6	7.00	0.23	0.45	4.35		
					Sub Total		**7.64**		
c	For Lintel		2	12.90	0.20	0.20	1.03		

Sl No	Description of work	Unit	Measurements				Qty	Rate	Amount
			No.	L	B	D			
			2	7.40	0.20	0.20	0.59		
d	For Stairs-Waist Slab		2	2.50	1.05	0.15	0.79		
			1	1.35	1.05	0.15	0.21		
e	Landing		2	1.05	1.05	0.15	0.33		
f	Steps		18	1.05	0.30	0.08	0.45		
g	For Roof Slab		1	15.90	7.40	0.15	17.65		
h	sump roof slab		1	3.60	3.00	0.15	1.62		
					Sub Total		**22.68**		
					Total		**91.75**	9060.48	**831338.45**
	Basic rate	6336.00							
	For Centering 30%	1900.80							
		8236.80							
	Area weightage 10%	823.68							
	Sub Total	**9060.48**							
8	**Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement** including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification. All other type of structures **(PWD SR 2023-24 Vol -I**								
a	For Stilt Floor	Tonne							
	Column Footing		Considering @ 155 kg/m3				2787.21		
	Column		Considering @ 285 kg/m3				1840.64		
	Beam		Considering @ 215 kg/m3				2620.57		
	Roof Slab and Stair		Considering @ 140 kg/m3				2561.45		
b	For Ground Floor								
	Column		Considering @ 285 kg/m3				1455.21		
	Beam		Considering @ 215 kg/m3				1642.23		
	Roof Slab,Stair and Lintel		Considering @ 140 kg/m3				2948.07		
				Total Wt in Kg			15855.39		
				Total Wt in Tonne			**15.86**	98402.70	**1560213.432**
	Basic rate	89457.00							
	Area weightage 10%	8945.70							
	Sub Total	**98402.70**							
9	**Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm** having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.**(PWD SR 2023-24 Vol -II Pg 17 item no 6.32)**								
	For wall Ground Floor	m2	2	12.50		3.00	75.00		
			2	7.00		3.00	42.00		
	For Compound Wall		2	15.90		1.40	44.52		
			2	7.00		1.40	19.60		
	For Parapet Wall		2	15.90		0.80	25.44		
			2	7.00		0.80	11.20		
	For Head Room		2	3.00		2.50	15.00		
			2	3.00		2.50	15.00		
	for sump		2	3.60		2.20	15.84		
			2	2.60		2.20	11.44		
	for stair- Stilt		1	10.00		2.50	25.00		
	ground floor		1	6.50		3.00	19.50		
	For Toilet		1	5.40		2.70	14.58		
							334.12		
	Deduct D		1	1.80		2.10	**3.78**		
	Deduct w		9	1.80		1.35	**21.87**		
							25.65		
					Net Qty		**308.47**	1441.00	**444505.27**
	Basic rate	1310.00							
	Area weightage 10%	131.00							
	Sub Total	**1441.00**							

Sl No	Description of work	Unit	Measurements				Qty	Rate	Amount
			No.	L	B	D			
1	**Providing Flush/ Ruled pointing**: Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge **(PWD SR 2023-24 Vol -II Pg 44 item no 8.19.1)**								
	Compound Wall	m2	1	15.90		0.40	6.36		
			1	15.90		2.00	31.80		
					Total		**38.16**	280.50	10703.88
	Basic rate	255.00							
	Area weightage 10%	25.50							
	Sub Total	280.50							
11	**Providing and laying in position Cement Concrete** for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications.**Mix 1:3:6 Using 20 mm nominal size** graded crushed coarse aggregates**(PWD SR 2023-24 Vol -I Pg 15 item no 2.1.4)**								
	For Compound Wall Coping	cum	2	15.90	0.20	0.10	0.64		
			2	7.00	0.20	0.10	0.28		
	sump tank bottom		1	3.20	2.60	0.15	1.25		
					Total		**2.16**	6838.70	14798.95
	Basic rate	6217.00							
	Area weightage 10%	621.70							
	Sub Total	6838.70							
12	**Providing 12 mm cement plaster with cement mortar 1:4** (1 cement: 4 fine sand) to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge..**(PWD SR 2023-24 Vol -II Pg 41 item no 8.1.1)**								
	Stilt Floor Roof- for ceiling	m2	1	15.90	7.40		117.66		
	Beams		4	15.90	0.45		28.62		
			12	7.00	0.45		37.80		
	Waist Slab		2	2.50	1.05		5.25		
			1	1.35	1.05		1.42		
	Ground Floor		1	15.90	7.40		117.66		
	Beams		6	7.00	1.13		47.46		
					Total		**355.87**	280.50	99820.83375
	Basic rate	255.00							
	Area weightage 10%	25.50							
	Sub Total	**280.50**							
13	**Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonry** including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-Charge(PWD SR 2023-24 Vol -II Pg 41 item no 8.3.1)								
a	**Plastering inside** -Hall	m2	2	7.00		3.30	46.2		
			2	12.50		3.30	82.5		
b	Headroom		2	3.30		2.50	16.50		
			2	3.00		2.50	15.00		
	sump tank		2	3.20		2.00	12.80		
			2	2.60		2.00	10.40		
	Toilet		2	5.40		2.70	29.16		
					Total		**212.56**	389.40	82770.864
	Basic rate	354.00							
	Area weightage 10%	35.40							
	Sub Total	**389.40**							
14	**Providing 20 mm cement plaster with cement mortar 1:3** (1 cement: 3 coarse sand) finished with a floating coat of neat cement to brick/ stone masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.(PWD SR 2023-24 Vol -II Pg 42 item no 8.6.2)								
	Outside plastering Hall	m2	2	12.90		4.35	112.23		

Sl No	Description of work	Unit	Measurements				Qty	Rate	Amount
			No.	L	B	D			
			2	7.40		4.35	64.38		
	Parapet		2	8.00		0.80	12.80		
	Headroom		2	3.70		2.50	18.50		
			2	3.40		2.50	17.00		
	Compound Wall		2	15.90		1.40	44.52		
			2	7.00		1.40	19.60		
	Toilet		1	4.40		2.70	11.88		
	stair wall		2	10.00		2.70	54.00		
			2	6.50		3.30	42.90		
					Total		**397.81**	471.90	187726.54
	Basic rate	429.00							
	Area weightage 10%	42.90							
	Sub Total	**471.90**							
15	**Providing and applying white cement based putty** of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge.**(PWD SR 2023-24**								
	wall putty- Internal and External	m2	Qty as per It No-12, 13 and				**943.04**	110.00	103734.125
	Basic rate	100.00							
	Area weightage 10%	10.00							
	Sub Total	**110.00**							
16	**Finishing walls with Acrylic Smooth exterior paint** of required shade :New work (Two coat applied @ 1.67L/10 m² over and including priming coat of exterior primer applied @ 2.20 kg/10 m²) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions								
	Outside Painting	m2	Qty as per It No-14				**397.81**	191.40	76140.83
	Basic rate	174.00							
	Area weightage 10%	17.40							
	Sub Total	**191.40**							
17	**Finishing with Deluxe Multi surface paint system for interiors** and exteriors using Primer as per manufacturers specifications: Two coats applied on walls @ 1.25 L/10 m² over and including one coat of Special primer applied @ 0.75 L/10 m² with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (The gloss should be								
	Inside Painting	m2	Qty as per Item No-12 and 13 (Excluding sump)				**545.23**	173.80	94760.54
	Basic rate	158.00							
	Area weightage 10%	15.80							
	Sub Total	**173.80**							
18	Providing and laying **Polished Granite stone flooring i**n required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.(PWD SR 2023-24 Vol -II Pg 63 item no								
a	Hall Ground Floor	m2	1	7.00	12.50		87.50		
			1	7.00	3.00		21.00		
b	Skirting Ground Floor		2	12.50	0.10		2.50		
			2	7.00	0.10		1.40		
c	Stilt And Ground								
	landing		4	1.05	1.05		4.41		
	Steps- Treads		36	1.05	0.3		11.34		
	Rise		36	1.05	0.16		6.048		
	Skirting		36	0.4	0.15		2.16		
					Total		**136.36**	3137.20	427782.3176
	Basic rate	2852.00							
	Area weightage 10%	285.20							
	Sub Total	**3137.20**							

Sl No	Description of work	Unit	Measurements				Qty	Rate	Amount
			No.	L	B	D			
	Providing skirting, dadooing, rises of steps with colour glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. **(PWD SR 2023-24 Vol -II Pg 65 item no 9.39)**								
	For Toilet Wall Tiles	m2	2	4.65	1.50		13.95		
					Total		**13.95**	1593.90	22234.905
	Basic rate	1449.00							
	Area weightage 10%	144.90							
	Total	1593.90							
20	**Providing and laying Ceramic glazed floor tiles of size 300x300 mm** (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/m2 including pointing the joints with white cement and matching pigment etc., complete.(PWD SR 2023-24 Vol -II Pg 60 item no 9.9)								
	Bathroom Tiles	m2	2	1.2	1.5		3.6		
					Total		3.6	1183.60	4260.96
	Basic rate	1076.00							
	Area weightage 10%	107.60							
	Total	1183.60							
21	**Providing Honne wood frames of doors,** windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications.**(PWD SR 2023-24 Vol -II Pg 99 item no 12.11)**								
	Door Frame	Cum	2	2.00	0.100	0.125	0.40		
			2	2.10	0.100	0.125	0.05		
			2	1.10	0.10	0.125	0.22		
			2	2.10	0.10	0.125	0.42		
					Total		**1.09**	151881.40	**165930.43**
	Basic rate	138074.00							
	Area weightage 10%	13807.40							
	Sub Total	**151881.40**							
22	**Providing and fixing in position fully panelled Honne wood shutters for doors** with stiles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures)**(PWD SR 2023-24 Vol -II Pg 100 item no 12.15)**								
	Door Shutter	m2	1	1.8	2.1		3.78		
			1	0.9	2.1		1.89		
					Total		**5.67**	8188.40	46428.23
	Basic rate	7444.00							
	Area weightage 10%	744.40							
	Sub Total	**8188.40**							
23	**Painting with synthetic enamel paint** of approved brand and manufacture of required colour to give an even shade :Two coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.**(PWD SR 2023-24 Vol -II Pg 48 item no 8.41)**								
		m2	Qty as per It No-22				5.67		
					Total		**5.67**	183.70	1041.58
	Basic rate	167.00							
	Area weightage 10%	16.70							
	Sub Total	**183.70**							

Sl No	Description of work	Unit	Measurements				Qty	Rate	Amount
			No.	L	B	D			
24	**Providing & fixing factory made PVC Door frame of size 50x47mm** with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm long brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufacturers specification & direction of Engineer-in-charge. **(PWD SR 2023-24 Vol -II Pg104 item no 12.54)**								
		m	2	4.95			9.9		
					Total		9.9	349.80	3463.02
	Basic rate	318.00							
	Area weightage 10%	31.80							
	Sub Total	**349.80**							
25	**Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube** of 19 gauge thickness, size 19x19mm for stiles and 15x15mm for top & bottom rails, covered with heat moulded PVC C channel of 5mm thick sheet & 30 x 50mm wide to form stiles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the stiles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 mm Aluminium hinges. **(PWD SR 2023-24 Vol -II Pg104 item no 12.53)**								
	For Toilet Door	m2	2	0.75	2.1		3.15		
					Total		**3.15**	1746.80	5502.42
	Basic rate	1588.00							
	Area weightage 10%	158.80							
	Sub Total	**1746.80**							
26	**Providing & fixing of 3-track x 2-panel sliding windows** made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 108mm width x 45mmheight with reinforcement of 1mm thickness and Sash with overall size of 39mm x 75mm with GI reinforcement of 2mm and mesh sash of size 37mm x 58mm. Coextruded Glazing bead for fixing of glass shall be of size 20mm x 24 mm. Windows shall be provided with 6mm plain float glass, standard hardware& Multi point locking system with touch lock. Wall thickness of frame & sash shall be of 2mm-2.5mm. Maximum possible size – 2419mm x 2200mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made))**(PWD SR 2023-24 Vol -II Pg 110 item no 12.90)**								
	For windows	m2	9	1.80	1.35		21.87		
					Total		**21.87**	7407.40	**161999.838**
	Basic rate	6734.00							
	Area weightage 10%	673.40							
	Sub Total	**7407.40**							
27	**Polyurethane based Single Component for New Surface Providing and laying water proofing** treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6 kg/m2 to achieve final DFT (Dry Film Thickness) of 1mm including prime coat of epoxy primer @150 g/m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification. **(PWD SR 2023-24 Vol -II Pg 149 item no 15.1)**								
	For Terrace Waterproofing	m2	1	15.5	7		108.5		
					Total		**108.5**	898.70	97508.95
	Basic rate	817.00							
	Area weightage 10%	81.70							
	Sub Total	**898.70**							

Sl No	Description of work	Unit	Measurements				Qty	Rate	Amount
			No.	L	B	D			
	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings /wooden frames with rawl plugs screws etc.**(PWD SR 2023-24 Vol -II Pg 86 item no 11.34B)**								
	For Windows	Kg	9	1.80	1.35		21.87		
							21.87		
				onsidering @ 21 kg/m			459.27		
	Basic rate	183.00			Total		459.27	201.3	92451.051
	Area weightage 10%	18.30							
	Sub Total	**201.30**							
29	**Providing and fixing stainless steel (Grade 304) railing** made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in- charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.) including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.**(PWD SR 2023-24 Vol -II Pg 85 item no 11.28)**								
a	For Stair	Kg	2	2.50	2.50		12.50		
b	For Varandha		1	6.50	0.90		5.85		
					Total		18.35		
				onsidering @ 12 kg/m			220.2	621.50	136854.30
	Basic rate	565.00							
	Area weightage 10%	56.50							
	Sub Total	**621.50**							
30	**Providing and laying 60mm thick factory made precast M -30 grade Cement Concrete Paver Block** as per IRC SP 63:2018 & IS 15658 for Cycle Tracks & Pedestrian Footpaths of approved shape and colour, laid in required pattern and including over 30mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-incharge. (WMM/WBM Base to be paid separately if necessary as per relevant technical specification)**(PWD SR 2023-24 Vol -III Pg 51 item no 6.8.1)**								
		sqm	1	15.50	7.00		108.50		
					Total		108.50	1174.80	127465.80
	Basic rate	1068.00							
	Area weightage 10%	106.80							
	Sub Total	**1174.80**							
31	**Providing and fixing Steel work welded in built up sections**/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in Charge**(PWD SR 2023-24 Vol -II Pg 84 item no 11.25.2)**								
a	**For Gate**	Kg	1	3.00		1.50	4.50		
			1	1.50		1.50	2.25		
		m2					**6.75**		
	Steel Assumed for 25Kg/sqm				**Total qty**		**168.75**	149.60	**25245.00**
	Basic rate	136.00							
	Area weightage 10%	13.60							
	Sub Total	**149.60**							
32	**Constructing brick masonry chamber** for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 600X850 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 fine sand : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc.**(PWD SR 2023-24 Vol-II Page No., Item No. 13.55)**								

Sl No	Description of work	Unit	Measurements				Qty	Rate	Amount
			No.	L	B	D			
	inspection chamber	No	2				2.00		
					Total		**2.00**	8141.10	16282.20
	Basic rate	7401.00							
	Area weightage 10%	740.10							
	Sub Total	**8141.10**							
	Electrification Works								
33	Supplying heavy gauge PVC conduit pipe ..... mm dia.....mm thick confirming to IS 2509 with suitable size bends, metal/PVC Junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary **25mm dia 2mm thick (PWD Electrical SR 2023-24 Item No: 1.2.2 P.No.1)**								
		M	1	60.00			60.00		
					Total		**60.00**	78.00	4680.00
34	Supplying heavy gauge PVC Conduit Pipe .... dia ..... mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering upto the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. **25 mm dia 2 mm thick (PWD Electrical SR 2023-24 Item No: 1.3.2 P.No.1)**								
		M	1	60.00			60.00		
					Total		**60.00**	79.00	4740.00
35	Supplying and fixing PVC/metal conduit Deep junction box **25 mm deep Junction box (PWD Electrical SR 2023-24 Item No: 1.5.2 P.No.1)**								
		each	15				15.00		
					Total		**15.00**	56.00	840.00
36	**Supplying And Fixing Metal Fan Box** with Round Hook. **(PWD Electrical SR 2023-24 Item No: 1.13 P.No.3)**								
		Nos	10				10.00		
					Total		**10.00**	117.00	1170.00
37	**Supplying and wiring adopting loop system in existing PVC Conduit /casing capping** using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. **Medium point above 3m upto 6m from tapping point to out letvia switch (PWD Electrical SR 2023-24 Item No: 2.1.2 P.No.4)**								
		Point	6				6.00		
					Total		**6.00**	379.00	2274.00
38	**Supplying and wiring adopting loop system in existing PVC Conduit /casing capping** using 2x1.5mm2 (Phase & Neutral) & 1x1.0 mm2 (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6A flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outletLong point above **6m upto 10m from tapping point** to out let via switch **(PWD Electrical SR 2023-24 Item No: 2.2.3 P.No.4)**								
		Point	35				35.00		
					Total		**35.00**	555.00	19425.00
39	**Wiring for lighting/power circuit** using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS- 694:2010 **1 sqmm (PWD Electrical SR 2023-24 Item No: 2.3.1 P.No.4)**								
		Mtr	1	90.00			90.00		
					Total		**90.00**	19.00	1710.00
40	**Wiring for lighting/power circuit** using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. - **2.5 sqmm. (PWD Electrical SR 2023-24 Item No: 2.3.3 P.No.4)**								
		Mtr	1	180.00			180.00		
					Total		**180.00**	42.00	7560.00

Sl No	Description of work	Unit	Measurements				Qty	Rate	Amount
			No.	L	B	D			
	Supplying 6A flush type socket and 6 A flush type SP switch either surface/flush mounting in existing gang box or in 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required as per IS 1293 and IS 3654 - 6Amps 3/5 Way **(PWD Electrical SR 2023-24 Item No: 3.1.2 P.No.7)**								
		Each	12				12.00		
					Total		**12.00**	147.00	1764.00
42	**Supplying and flush mounting powder coated** / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall - **8Way (PWD Electrical SR 2023-24 Item No: 3.4.5 P.No.7)**								
		Each	8				8.00		
					Total		**8.00**	261.00	2088.00
43	**Supplying and flush mounting powder coated** / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall - **10-12 Way (PWD Electrical SR 2023-24 Item No: 3.4.6 P.No.7)**								
		Each	5				5.00		
					Total		**5.00**	319.00	1595.00
44	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches, regulators etc, and fixing on existing wooden or metal box using N.F. screws. **(PWD Electrical SR 2023-24 Item No: 3.8 P.No.8)**								
		Sq Cm	5000				5000.00		
					Total		**5000.00**	0.41	2050.00
45	**Supplying and fixing of modular switch & connected accessories** on existing modular switch plate as per IS 3854 and IS 1293.. **-Stepped Fan Regulator Two Module (PWD Electrical SR 2023-24 Item No: 3.6.4 P.No.8)**								
		Each	10				10.00		
					Total		**10.00**	357.00	3570.00
46	**Supplying and fixing of modular switch & connected accessories** on existing modular switch plate as per IS 3854 and IS 1293.. **-6A One Way Switch (PWD Electrical SR 2023-24 Item No: 3.6.1 P.No.8)**								
		Each	40				40.00		
					Total		**40.00**	102.00	4080.00
47	**Supply of round/square recess/surface mounted rolling type LED Down light with** ..... W GU 10 LED Lamp Rib Fabricated from diecast aluminium with white powder coated prewired to mains connector & has swivelling unit of aluminium die cast eye ball & LED Lamp position retained by circular wire spring, with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @50/60Hz & Power factor >0.9 along with CE approved. 2years Warranty against any manufacturing defect working under standard electrical condition LED **(PWD Electrical SR 2023-24 Item No: 11.5.3 P.No.43)**								
		Each	30				30.00		
					Total		**30.00**	1324.00	39720.00
48	**Supplying of Ceiling Fan** with Capacitor rating As per guideline of BEE 5 star rating and IS:374/79 and also comply with IS: 1709/1984 with latest amendment, Rated voltage 220 V/50 Hz, Rated power input 48 W +/- 10 %, Rated current As per IS:374/79, Rated power factor 0.9 lagging(min), Rated speed 350 +/- 10% RPM, Rated air delivery 210 +/- 10% Cubic Meter Minimum, Rated service value 4.2 CMM / W, Three Blades of blade leaf 1.05 mm thick Aluminium Alloy sheet, Class B motor insulation, Bearing Two ball bearings, Top 6202, Bottom 6201, as per IS specification, Motor winding. Temp rise Shall not exceed 75 deg C over and ambient of 40 0C by resistance method at 245 V, Insulation resistance Shall not be less than Two Mega Ohms (2M Ohms), Leakage current Should not exceed 210 Micro Amp, Power input, W& current, Air Delivery & Fan Speed as per IS:374/1979 with latest amendment, 2 year manufacturer Warranty..**48" Sweep 5 Star (1200 mm) (PWD Electrical SR 2023-24 Item No:6.4.1 P.No.29)**								
		Each	10				10.00		
					Total		**10.00**	4303.00	43030.00
49	**Supplying & fixing miniature circuit breakers on existing MCB** distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.**6-32 A SP (PWD Electrical SR 2022-23 Item No: 5.18.1 P.No.16)**								

Sl No	Description of work	Unit	Measurements				Qty	Rate	Amount
			No.	L	B	D			
		Each	1				1.00		
					Total		**1.00**	415.00	415.00
50	**Supplying, fixing and wiring Electronic Trivector Meter (ETV)** 5 to 32/63 A three phase 4 wire whole current class-1 Accuracy Energy Meter.**(PWD Electrical SR 2022-23 Item No: 5.35 P.No.18)**								
		Each	1				1.00		
					Total		**1.00**	5705.00	5705.00
51	**Supplying of 1.1KV LT UG cable XPLE** or heat resistant PVC Insulated PVC eatruded inner sheath armoured UG LT cable as per IS -1554(Part-1) or IS-7098 Part-1,Armouring strip thickness in average +5% and resistivity 14ohms/kms(max) as per IS -3975 4 core 16sqmm **(Ele SR 2019-20 P-No 40 I/No-6.4.4)**								
		mtr	1	30.00			**30.00**		
					Total		**30.00**	150.00	4500.00
52	**Labour charges for laying of 1.1 KV class UG cable** in existing trench GI pipe/ stone pipe / on wall/ on pole as required 6 sqmm to 16 sqmm. **(Ele SR OF 2019-20 P-No 41 I/No-6.5.1)**								
		mtr	1	30.00			**30.00**		
					Total		**30.00**	11.88	356.40
53	**Digging of trench of 0.6m deep x 0.50** mtr wide refilling the trench to the required ground level and consolidating etc., complete cutting road surfaces**(P.No - 41, I.No -6.6.3, KPWD Electrical SR 19-20)**								
		mtr	1	30.00			**30.00**		
					Total		**30.00**	82.00	2460.00
54	Supplying and fixing of class **A GI pipe on pole/wall/drain crossing** with necessary clamping arrangements for UG cable of 1.1 KV class 40mm (P.No - 41, I.No -6.9.1, KPWD Electrical SR 19-20)								
		Nos	1	4.00			**4.00**		
					Total		**4.00**	335.00	1340.00
55	**Earthing : Supplying and fixing and wiring earth electrode** for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts, nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia **(PWD SR 2023-24 Vol-V Page No.157, Item No.13.39)**								
		Nos	1				**1.00**		
					Total		**1.00**	3750.00	3750.00
	Basic Rate	3750.00							
	3% Area Weightage	112.50							
	Total	**3862.50**							
56	**Supply and delivery of Centrifugal pumpset** at site brand new best make and with discharge duty confirming to ISI standards and its latest amendments. 2 HP, Size 65x50 Head 13M, Discharge 462 LPM**(PWD SR 2023-24 Vol-V Page No.157, Item No. 13.40.1)**								
	For Sump	Each	1				1.00		
					Total		**1.00**	15610.00	15610.00
57	**Providing & fixing upvc ventilator with Exhaust Turbo speed fan** with 5 blades (300mm x 300 mm & above sized fan) with copper motor having mounting arrangements as per direction of Engineer in charge of work **(PWD SR 2023-24 Vol -II Pg 221 item no 22.49)**								
	Exhaust Fan	No	2				2.00		
					Total		**2.00**	1950.00	3900.00

Sl No	Description of work	Unit	Measurements				Qty	Rate	Amount
			No.	L	B	D			
	Plumbing Works								
58	**Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes**, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall**(PWD SR 2023-24 Vol-II Page No.122, Item No. 13.31)**								
a	25 mm nominal dia Pipes (PWD SR 2023-24 Vol-II Page No.122, Item No. 13.31.3)	m	60				60.00		
						Total	**60.00**	349.80	20988.00
	Basic rate	318.00							
	Area weightage 10%	31.80							
	Total	**349.80**							
b	32 mm nominal dia Pipes(PWD SR 2023-24 Vol-II Page No.122, Item No. 13.31.4)	m	27				27.00		
						Total	**27.00**	440.00	11880.00
	Basic rate	400.00							
	Area weightage 10%	40.00							
	Total	**440.00**							
59	**Providing and placing on terrace (at all floor levels) polyethylene water storage tank**, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank**(PWD SR 2023-24 Vol-II Page No.123, Item No. 13.34)**								
	For water storage tank	**L**	2000				**2000.00**		
						Total	**2000.00**	9.90	19800.00
	Basic rate	9.00							
	Area weightage 10%	0.90							
	Total	**9.90**							
60	**Providing and fixing wash basin with C.I. brackets**, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps **(PWD SR 2023-24 Vol-II Page No.132, Item No. 14.7.1)**								
	Wash Basin	**Each**	2				**2.00**		
						Total	**2.00**	3390.20	6780.40
	Basic rate	3082.00							
	Area weightage 10%	308.20							
	Total	**3390.20**							
61	**Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm** of approved shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete.**(PWD SR 2023-24 Vol-II Page No.138, Item No. 14.44)**								
	Water Closet	**Each**	2				2.00		
						Total	**2.00**	12346.40	24692.80
	Basic rate	11224.00							
	Area weightage 10%	1122.40							
	Total	**12346.40**							
62	**Extra for providing opening of required size & shape for wash basin**/ kitchen sink in kitchen platform, vanity counter and similar location in Granite, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.**(PWD SR 2023-24 Vol-II Page No.69, Item No. 10.4)**								
	taps	**Each**	5				**5.00**		
						Total	**5.00**	650.10	3250.50
	Basic rate	591.00							
	Area weightage 10%	59.10							
	Total	**650.10**							

Sl No	Description of work	Unit	Measurements				Qty	Rate	Amount
			No.	L	B	D			
	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes 100 mm diameter **(PWD SR 2023-24 Vol -II Pg 125 item no 13.48)**								
	For Rain Water Pipe		6	6.00			36.00		
					Total		36.00	320.10	11523.60
	Basic rate	291.00							
	Area weightage 10%	29.10							
	Total	**320.10**							
								Sub Total	**5931796.00**
								GST 18%	1067723.00
								Misc	481.00
								Grand Total	**7000000.00**

Certificate:

1 The work spot has been inspected and the work is found necessary.

2 This estimate is prepared as per PWD SR of 2018-19

3 The provisions were made in this estimate are necessary and adequate.

4 This works come under B.B.M.P. limits.

Assistant Engineer

Executive Engineer
Bruhat Bangalore Mahanagara Palike

Assistant Executive Engineer
Kodigehalli Sub Division

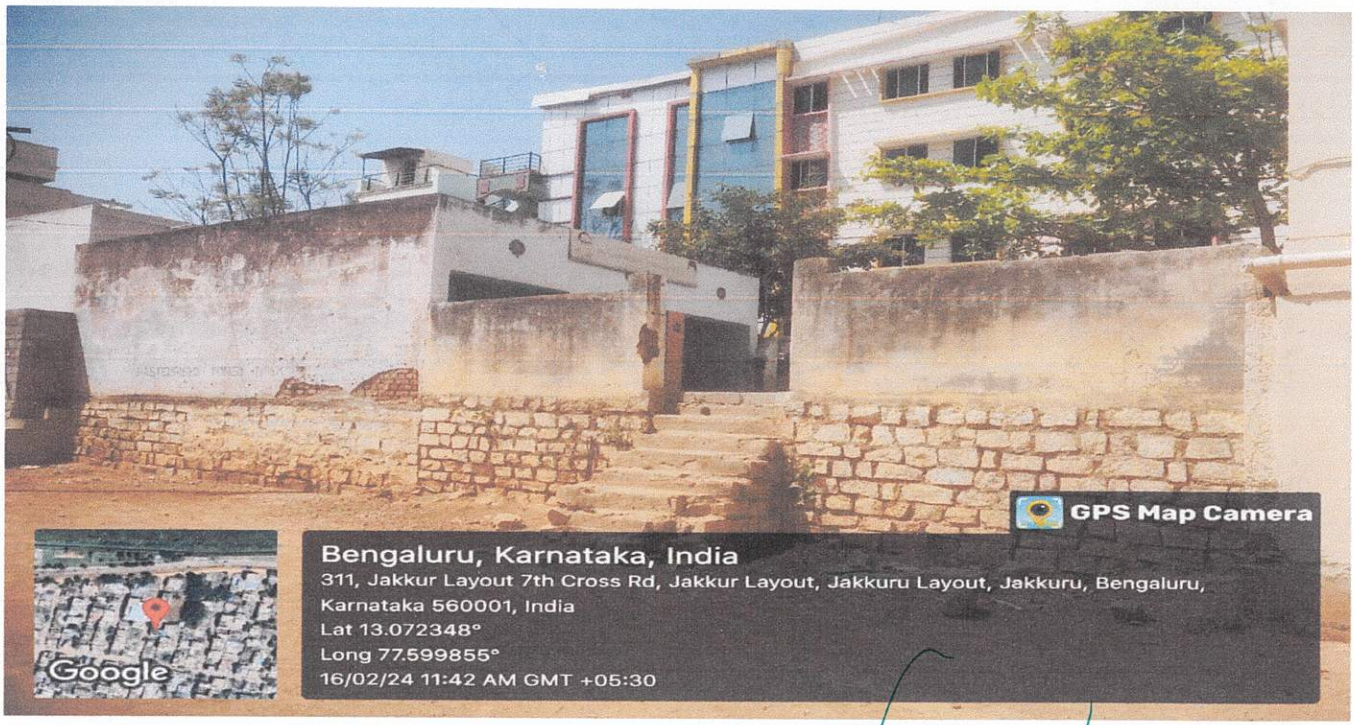
Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

ADMINISTRATIVE SANCTION
Accorded for Rs. 70.00 Lakhs
Head of A/c. P-1878
Div. Ref. No. 64 Date 08/02/24
AE/DM EE(BTP) BBMP

Technical Sanction
Accorded For Rs. 70.00 Lakhs
Head of A/C. P1878
CER NO : 98 Dt: 08/02/24

Name of work: Construction of Additional floor to Dr. B. R. Ambedkar Samudaya Bhavana at Jakkuru layout 6th cross in ward No. 08 Amruthahalli

GPS Map Camera
Bengaluru, Karnataka, India
311, Jakkur Layout 7th Cross Rd, Jakkur Layout, Jakkuru Layout, Jakkuru, Bengaluru, Karnataka 560001, India
Lat 13.072371°
Long 77.599812°
16/02/24 11:42 AM GMT +05:30
Google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Bengaluru, Karnataka, India
311, Jakkur Layout 7th Cross Rd, Jakkur Layout, Jakkuru Layout, Jakkuru, Bengaluru, Karnataka 560001, India
Lat 13.072348°
Long 77.599855°
16/02/24 11:42 AM GMT +05:30
Google

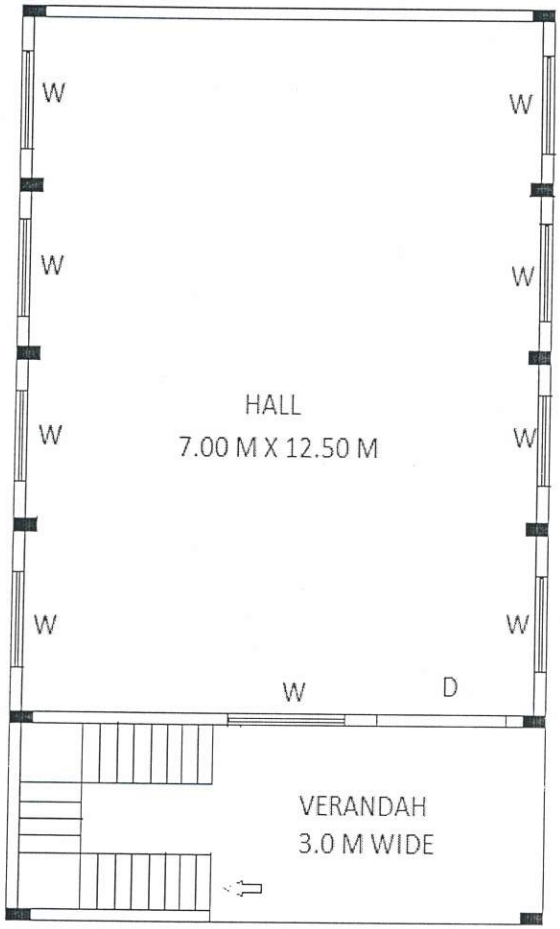
Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Name of work: Construction of Additional floor to Dr. B. R. Ambedkar Samudaya Bhavana at Jakkuru layout 6th cross in ward No. 08 Amruthahalli

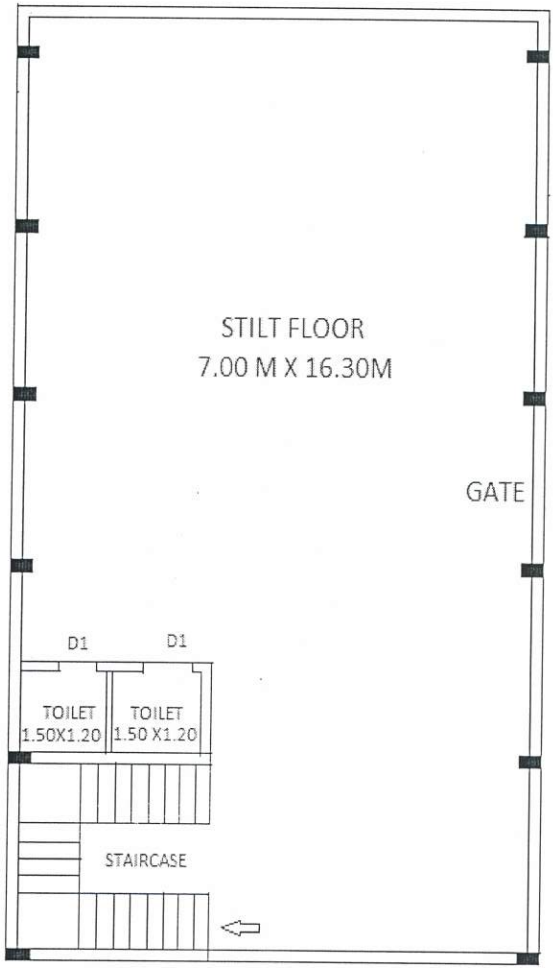
GPS Map Camera
Bengaluru, Karnataka, India
266, 7th Cross Rd, Jakkur Layout, Jakkuru Layout, Jakkuru, Bengaluru, Karnataka 560001, India
Lat 13.072238°
Long 77.599743°
16/02/24 11:43 AM GMT +05:30
Google

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Name of work : Construction of Samudaya Bhavan at Jakkur Layout in ward No 08 Amruthahalli



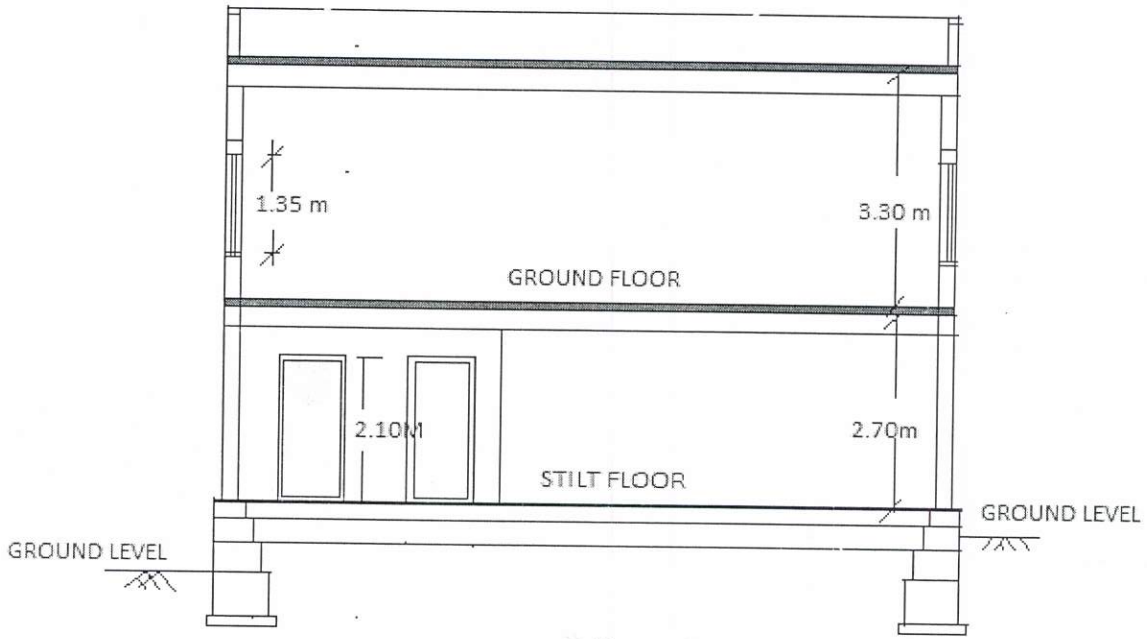
GROUND FLOOR PLAN



STILT FLOOR PLAN

Index : D = Door 1.80 x 2.10m
D1 = Door 0.75 x2.10 m
W = Window 1.80x 1.35 m

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



cross section on AA

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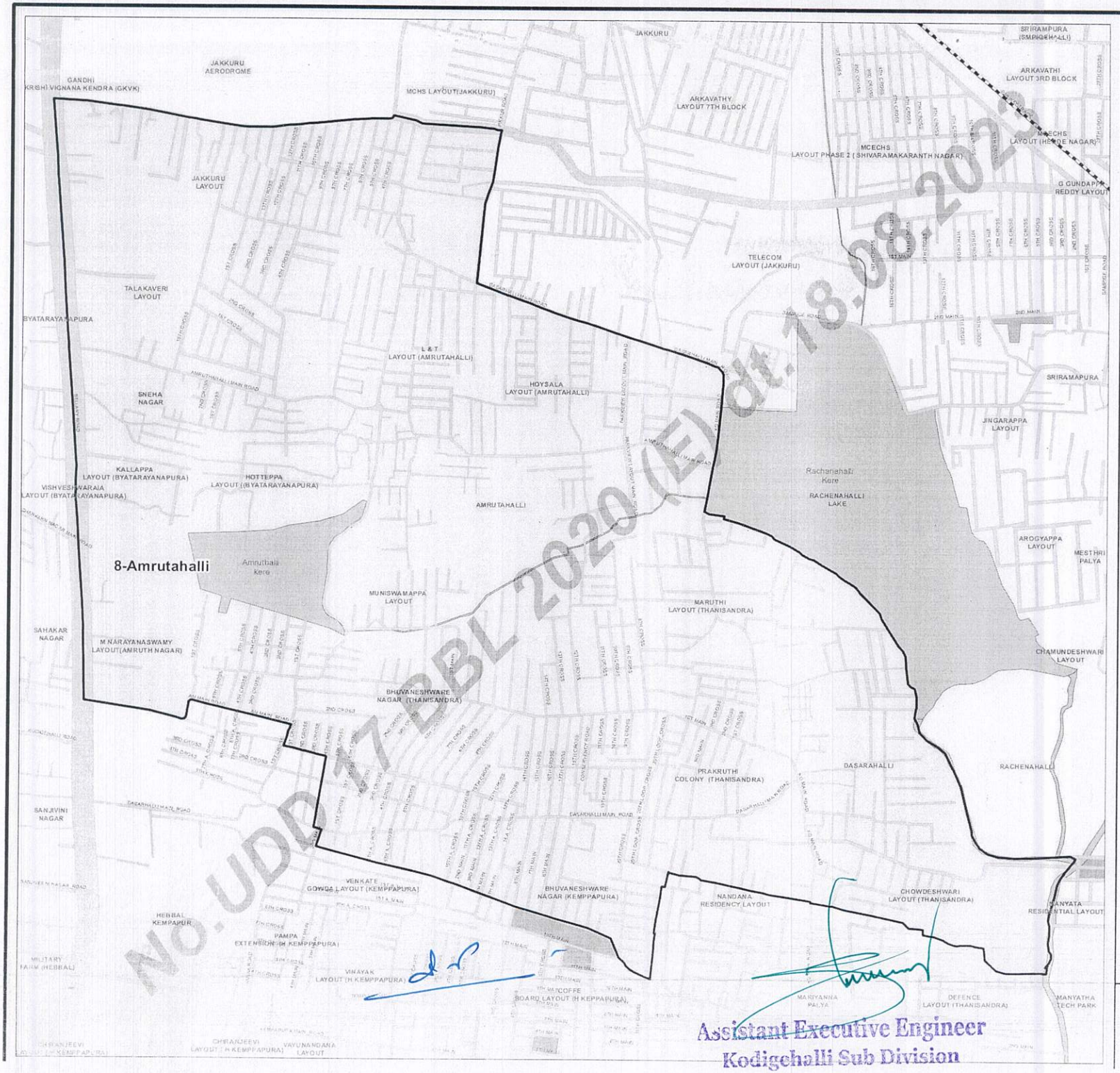
Kodigehalli Sub Division
BBMP, Bangalore



No.UDD 17 BBL 2020 (E) dt.18.08.2023

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Delimitation of Wards in BBMP - 2023

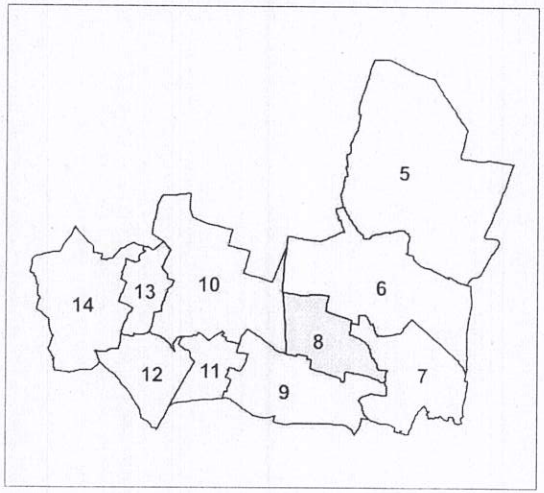
Ward Name

8-Amrutahalli

Legend

- Delimited Ward Boundary
- Delimited Ward Area
- Road
- Railwayline
- Park
- Tank/ Pond/ Storm Water Drain

152- Byatarayanapura AC



Government of Karnataka Notification
No.UDD 17 BBL 2020 (E) dt.18.08.2023

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Delimitation Commission